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What we claim is:

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1. Crystalline 7-[2-(2-aminothiazol-4-yl)-2-hydroxyimino-acetamido]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) which shows the peaks at the diffraction angles shown in the following table in its powder X-ray diffraction pattern:

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	diffraction angle (°)
	about 14.7
15	about 17.8
20	about 21.5
25	about 22.0
30	about 23.4
	about 24.5
35	about 28.1

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2. Crystalline 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) which is obtainable by acidifying a solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) at room temperature or under warming.

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3. Crystalline substance of claim 2,
wherein a solution containing 7-[2-(2-aminothiazol-4-yl)-
2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid
(syn isomer) is an aqueous solution of an alkali metal salt
of said compound.

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4. Crystalline substance of claim 3,
wherein the acidifying of the solution is carried out at the
temperature from room temperature to 40°C at the pH from 1
to 4.

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5. Crystalline 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) which is obtainable by dissolving 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) in an alcohol, continuing to stir the solution slowly under warming, then cooling the solution to room temperature and allowing the solution to stand.

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6. A process for preparing crystalline 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) which comprises acidifying a solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) at room temperature or under warming.

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— END —

5 7. A process of claim 6,
wherein a solution containing 7-[2-(2-aminothiazol-4-yl)-
2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid
(syn isomer) is an aqueous solution of an alkali metal salt
of said compound.

10 8. A process of claim 7,
wherein the acidifying of the solution is carried out at the
temperature from room temperature to 40°C at the pH from 1
to 4.

15 9. A process for preparing crystalline 7-[2-(2-amino-
thiazol-4-yl)-2-hydroxyiminoacetamido]-3-vinyl-3-cephem-
4-carboxylic acid (syn isomer) which comprises dissolving
7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamido]-
3-vinyl-3-cephem-4-carboxylic acid (syn isomer) in an
alcohol, continuing to stir the solution slowly under
warming, then cooling the solution to room temperature and
allowing the solution to stand.

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